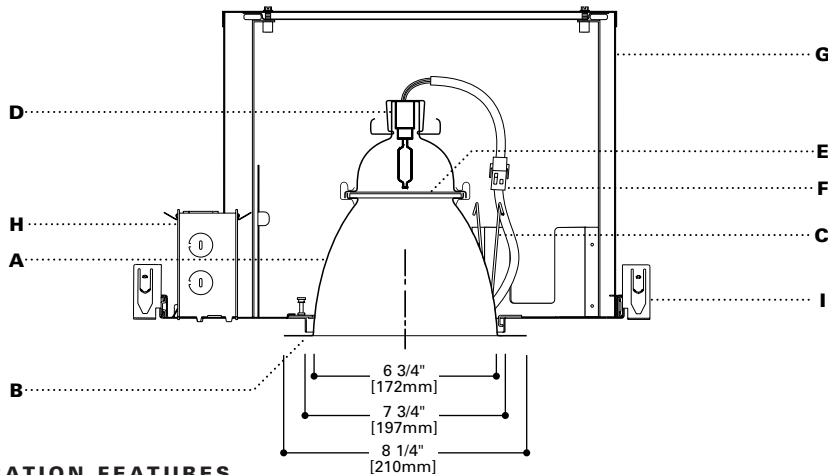


DESCRIPTION

Specification grade quartz T4 fixture rated for direct contact with insulation. The 50° cutoff to lamp and lamp image provides a glare free, concentrated distribution of light. Halogen lamps

provide excellent color and long life. **Lamp module and optical element can be changed after installation to provide a variety of lamp sources and distributions. e.g. into a PAR36 Adjustable.**



SPECIFICATION FEATURES

A...Reflector

.040 thick aluminum spun parabolic upper and lower reflector. Upper reflector is specular clear, lower reflector available in iridescent free Clear, Gold, Black, Haze, Warm Haze Alzak®, or painted gloss white finish. Special cone colors listed below.

B...Flange

Self flange reflector or Die-cast flange with either matte white or clear coat finish. Die-cast flanges are easily removed for field painting. Elements are keyed for proper insertion.

C...Attachment

Positive torsion springs pull flange tight to ceiling. Mechanical light trap eliminates spill light at edge of flange or reflector.

D...Socket

Mini candelabra nickel plated porcelain finish. Fixed socket height ensures consistent lamp position.

E...Lamp Shield

.125 thick tempered etched glass lens is retained during relamping and provides ultra-smooth beam pattern.

F...Electrical

Keyed quick connect provides easy lamp module installation.

G...Frame/Housing

Hot dipped galvanized 20 gauge steel frame with built in 1/2 inch plaster lip. Gunsights allow for consistent alignment. Aluminum .032 thick housing allows for heat dissipation and reduces weight. **Top is removable for above-ceiling access.**

H...Junction Box

18 cubic inches, listed for 4#12 AWG or 6#14 AWG 90° C additional feed through conductors, has six 1/2 inch pryouts.

I...Bar Hangers

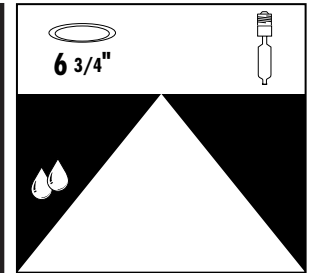
No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C. shipped with platform. For use in T-bar ceilings order accessory MBCLP. Nailless barb and locator lip provide consistent installation height.

Codes

Thermally protected, IP labeled, for use in direct contact with insulation. Meets Washington State Air tight requirements, 1995 CABO Model Energy Code.

Labels

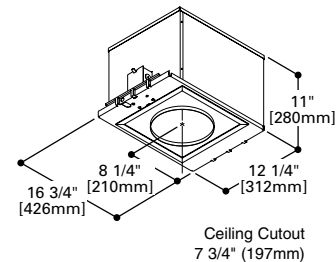
UL and cUL listed, standard wet label, IBEW union made.



**P7
MQT4
E7QT4**

150W T4

7" DOWNLIGHT



Ceiling Cutout
7 3/4" (197mm)

ORDERING INFORMATION

Complete unit consists of a platform, module and element

Platform	Lamp Module	Optical Element	Finish	Flange	Accessories
P7	MQT4				
P7=7" Airtight IC Rated housing	MQT4= 7" QT4 Mini-Candelabra Socket	E7QT4= 7" QT4 Downlight Reflector	Standard B=Black C=Clear H=Haze G=Gold WMH=Warm Haze W=Gloss White MW=Matte White Custom K=Cognac KH=Cognac Haze CC=Chocolate	Custom Cont. CCH=Chocolate Haze BU=Blush BUH=Blush Haze GP=Graphite GPH=Graphite Haze PN=Pine PNH=Pine Haze SK=Sky SKH=Sky Haze	Blank=White die-cast SF=Self Flange RAW=Natural Die-cast SFWF=Self Flange Painted White MBCLP=40 Push On T Bar Clips (for 10 Units) PLE7=Plaster Lip Extension for Max 2" Thick Ceiling

PHOTOMETRICS**P7-MQT4-E7QT4C**

Test No. H35085

Lamp: Q150T4/Frosted

Lumens: 2700

Cutoff: 50°

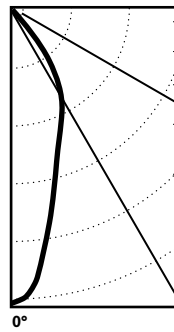
Spacing: 0.6

Efficiency: 60.1%

Unit LPW: 10.8

Candelas

Vertical Angle	CD
90	0
85	0
75	0
65	0
55	0
45	42
35	662
25	1116
15	1607
5	2612
0	2818

Distribution**Luminance**

Degree	cd/m²
85°	0
75°	0
65°	0
55°	0
45°	2593

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'6"	143	2'6"
5'6"	96	3'0"
6'6"	69	3'6"
8'0"	45	4'0"
10'0"	29	5'0"
12'0"	20	6'0"

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	1199	44.4	73.8
0-40	1570	58.1	96.7
0-60	1624	60.1	100.0
0-90	1624	60.1	100.0
90-180	0	0.0	0.0
0-180	1624	60.1	100.0

Coefficient of Utilization

Ceiling Reflectance	80%				70%				50%				30%				0%
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
Room Cavity Ratio	0	72	72	72	72	70	70	70	67	67	67	67	64	64	64	64	60
1	66	63	61	59	62	58	60	56	60	56	57	55	57	55	52	52	52
2	63	59	56	54	58	53	56	52	56	52	54	51	54	51	49	49	49
3	60	56	52	49	55	49	53	48	53	48	52	47	52	47	46	46	46
4	57	52	48	46	51	45	50	45	50	45	49	44	49	44	43	43	43
5	54	49	45	42	48	42	47	42	47	42	46	41	46	41	40	40	40
6	52	46	42	40	46	39	45	39	45	39	44	39	44	39	38	38	38
7	49	43	40	37	43	37	42	37	42	37	41	36	41	36	35	35	35
8	47	41	37	35	40	34	40	34	40	34	39	34	39	34	33	33	33
9	45	39	35	32	38	32	38	32	38	32	37	32	37	32	31	31	31
10	42	36	33	30	36	30	36	30	36	30	35	30	35	30	29	29	29

Notes and Formulas:

Luminance: To convert cd/m² to footlamberts, multiply by 0.2919

Cone of Light:

- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary. See page 64-65 of catalog.

CU Notes/Formulas:

- $\text{maintained illuminance} = \frac{\text{lamp lumens} \times \text{CU} \times \text{light loss factors}}{\text{room area}}$
- $\text{total number of luminaires} = \frac{\text{total room area} \times \text{maintained illuminance}}{\text{lamp lumens} \times \text{CU} \times \text{light loss factors}}$
- CU data based on 20% effective floor cavity reflectance.

Note: Specifications and Dimensions subject to change without notice.

Visit our web site at www.cooperlighting.com